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| Michael T. Davis  Pre-Calculus | | Units 1.5 & 1.6 QUIZ  October 3, 2016 | |
| Name: | |

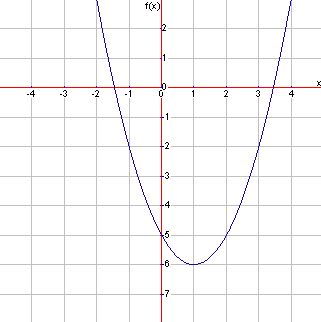
**Directions:** Show your work, your thought process, and your essential steps in your work so that you receive full

credit. A wrong answer without any work receives no credit.

1. Neatly graph the parabola with quadratic equation 
2. Neatly graph the parabola with quadratic equation 
3. Graph the parabola with quadratic equation 

1. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 

1. Determine the real zeros (x-intercepts) of the parabola with equation , i.e. solve 
2. Determine the equation for the axis of symmetry of the parabola defined by the quadratic function 
3. Determine the real zeros (x-intercepts) of the parabola with equation .
4. Convert the quadratic equation  to vertex form and write the coordinates of the vertex.
5. Convert the quadratic function  to standard form
6. Convert the quadratic function  to factored form and state the zeros of the function.
7. Write an equation of the quadratic function whose graph is shown below:



Extra Credit

Determine the vertex form of the quadratic function with equation 